STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: *10/517,220*

Source: *PCT*

Date Processed by STIC: *5-19-05*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER: .
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: 10/517,220

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics- Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s)_____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s)_____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s)_____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

AMC – Biotechnology Systems Branch – 09/09/2003

PCT

RAW SEQUENCE LISTING   DATE: 07/19/2005
PATENT APPLICATION: **US/10/517,220**   TIME: 08:58:58

Input Set : **E:\24615-20244.00 - seq list.txt**
Output Set: **N:\CRF4\07192005\J517220.raw**

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 3 <110> APPLICANT: Edens, Luppo
 4         Lopez, Michel
 6 <120> TITLE OF INVENTION: Improved method for the prevention or reduction of haze in
 7         beverages
 9 <130> FILE REFERENCE: 246152024400
11 <140> CURRENT APPLICATION NUMBER: US 10/517,220
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C--> 12 <141> **CURRENT FILING DATE: 2004-12-07**
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14 <150> PRIOR APPLICATION NUMBER: PCT/NL03/00352
15 <151> PRIOR FILING DATE: 2003-05-14
17 <150> PRIOR APPLICATION NUMBER: NL 02100681.2
18 <151> PRIOR FILING DATE: 2002-06-07
20 <160> NUMBER OF SEQ ID NOS: 7
22 <170> SOFTWARE: PatentIn Ver. 2.1
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Does Not Comply
Corrected Diskette Needed
(PJ.1-5)

ERRORED SEQUENCES

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260 <210> SEQ ID NO: 4
261 <211> LENGTH: 526
262 <212> TYPE: PRT
263 <213> ORGANISM: Aspergillus niger
265 <400> SEQUENCE: 4
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268 Ala Ser Leu Ala Gln Ala Ala Arg Pro Arg Leu Val Pro Lys Pro Ile
```
E--> 269   20   25   30
```
270 Ser Arg Pro Ala Ser Ser Lys Ser Ala Ala Thr Thr Gly Glu Ala Tyr
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E--> 271 35   40   45
```
272 Phe Glu Gln Leu Leu Asp His His Asn Pro Glu Lys Gly Thr Phe Ser
```
E--> 273   50   55   60
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274 Gln Arg Tyr Trp Trp Ser Thr Glu Tyr Trp Gly Gly Pro Gly Ser Pro
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E--> 275 65   70   75   80
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276 Val Val Leu Phe Asn Pro Gly Glu Val Ser Ala Asp Gly Tyr Glu Gly
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E--> 277 85   90   95
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278 Tyr Leu Thr Asn Asp Thr Leu Thr Gly Val Tyr Ala Gln Glu Ile Gln
```
E--> 279   100   105   110
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280 Gly Ala Val Ile Leu Ile Glu His Arg Tyr Trp Gly Asp Ser Ser Pro
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E--> 281 115   120   125
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282 Tyr Glu Val Leu Asn Ala Glu Thr Leu Gln Tyr Leu Thr Leu Asp Gln
```
E--> 283   130   135   140
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284 Ser Ile Leu Asp Met Thr Tyr Phe Ala Glu Thr Val Lys Leu Gln Phe
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E--> 285 145   150   155   160
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286 Asp Asn Ser Ser Arg Ser Asn Ala Gln Asn Ala Pro Trp Val Met Val
```

PJS
See item
#3 on
error
summary
sheet.

```
E--> 287    165        170        175
     288 Gly Gly Ser Tyr Ser Gly Ala Leu Thr Ala Trp Thr Glu Ser Ile Ala
E--> 289    180        185        190
     290 Pro Gly Thr Phe Trp Ala Tyr His Ala Thr Ser Ala Pro Val Glu Ala
E--> 291 195        200    205
     292 Ile Tyr Asp Phe Trp Gln Tyr Phe Tyr Pro Ile Gln Gln Gly Met Ala
E--> 293    210    215        220
     294 Gln Asn Cys Ser Lys Asp Val Ser Leu Val Ala Glu Tyr Val Asp Lys
E--> 295 225        230    235        240
     296 Ile Gly Lys Asn Gly Thr Ala Lys Glu Gln Gln Glu Leu Lys Glu Leu
E--> 297       245        250    255
     298 Phe Gly Leu Gly Ala Val Glu His Tyr Asp Asp Phe Ala Ala Val Leu
E--> 299    260    265        270
     300 Pro Asn Gly Pro Tyr Leu Trp Gln Asp Asn Asp Phe Val Thr Gly Tyr
E--> 301 275        280    285
     302 Ser Ser Phe Phe Gln Phe Cys Asp Ala Val Glu Gly Val Glu Ala Gly
E--> 303    290    295        300
     304 Ala Ala Val Thr Pro Gly Pro Glu Gly Val Gly Leu Glu Lys Ala Leu
E--> 305 305        310    315        320
     306 Ala Asn Tyr Ala Asn Trp Phe Asn Ser Thr Ile Leu Pro Asn Tyr Cys
E--> 307    325        330    335
     308 Ala Ser Tyr Gly Tyr Trp Thr Asp Glu Trp Ser Val Ala Cys Phe Asp
E--> 309       340    345        350
     310 Ser Tyr Asn Ala Ser Ser Pro Ile Phe Thr Asp Thr Ser Val Gly Asn
E--> 311 355        360    365
     312 Pro Val Asp Arg Gln Trp Glu Trp Phe Leu Cys Asn Glu Pro Phe Phe
E--> 313    370    375        380
     314 Trp Trp Gln Asp Gly Ala Pro Glu Gly Thr Ser Thr Ile Val Pro Arg
E--> 315 385        390    395        400
     316 Leu Val Ser Ala Ser Tyr Trp Gln Arg Gln Cys Pro Leu Tyr Phe Pro
E--> 317    405        410    415
     318 Glu Val Asn Gly Tyr Thr Tyr Gly Ser Ala Lys Gly Lys Asn Ser Ala
E--> 319    420    425        430
     320 Thr Val Asn Ser Trp Thr Gly Gly Trp Asp Met Thr Arg Asn Thr Thr
E--> 321 435        440    445
     322 Arg Leu Ile Trp Thr Asn Gly Gln Tyr Asp Pro Trp Arg Asp Ser Gly
E--> 323    450    455        460
     324 Val Ser Ser Thr Phe Arg Pro Gly Gly Pro Leu Val Ser Thr Ala Asn
E--> 325 465        470    475        480
     326 Glu Pro Val Gln Ile Ile Pro Gly Gly Phe His Cys Ser Asp Leu Tyr
E--> 327    485        490    495
     328 Met Glu Asp Tyr Tyr Ala Asn Glu Gly Val Arg Lys Val Val Asp Asn
E--> 329    500    505        510
     330 Glu Val Lys Gln Ile Lys Glu Trp Val Glu Glu Tyr Tyr Ala
E--> 331 515        520        525
     333 <210> SEQ ID NO: 5
     334 <211> LENGTH: 526
     335 <212> TYPE: PRT
     336 <213> ORGANISM: Aspergillus niger
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(handwritten in right margin) Oops
P
See item
#3 on
error
Summary
Sheet

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    343 Ser Arg Pro Ala Ser Ser Lys Ser Ala Ala Thr Thr Gly Glu Ala Tyr
E--> 344 35          40      45
    345 Phe Glu Gln Leu Leu Asp His His Asn Pro Glu Lys Gly Thr Phe Ser
E--> 346     50      55          60
    347 Gln Arg Tyr Trp Trp Ser Thr Glu Tyr Trp Gly Gly Pro Gly Ser Pro
E--> 348 65          70      75          80
    349 Val Val Leu Phe Thr Pro Gly Glu Val Ser Ala Asp Gly Tyr Glu Gly
E--> 350     85      90          95
    351 Tyr Leu Thr Asn Gly Thr Leu Thr Gly Val Tyr Ala Gln Glu Ile Gln
E--> 352         100 105         110
    353 Gly Ala Val Ile Leu Ile Glu His Arg Tyr Trp Gly Asp Ser Ser Pro
E--> 354     115         120 125
    355 Tyr Glu Val Leu Asn Ala Glu Thr Leu Gln Tyr Leu Thr Leu Asp Gln
E--> 356         130 135         140
    357 Ala Ile Leu Asp Met Thr Tyr Phe Ala Glu Thr Val Lys Leu Gln Phe
E--> 358 145         150 155         160
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E--> 360     165         170 175
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    363 Pro Gly Thr Phe Trp Ala Tyr His Ala Thr Ser Ala Pro Val Glu Ala
E--> 364 195         200 205
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E--> 366     210         215 220
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    369 Ile Gly Lys Asn Gly Thr Ala Lys Glu Gln Gln Ala Leu Lys Glu Leu
E--> 370 245         250 255
    371 Phe Gly Leu Gly Ala Val Glu His Phe Asp Asp Phe Ala Ala Val Leu
E--> 372     260 265         270
    373 Pro Asn Gly Pro Tyr Leu Trp Gln Asp Asn Asp Phe Ala Thr Gly Tyr
E--> 374 275         280 285
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E--> 376     290 295         300
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E--> 380 325         330 335
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E--> 382     340 345         350
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—same
error

Input Set : E:\24615-20244.00 - seq list.txt
Output Set: N:\CRF4\07192005\J517220.raw

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E--> 388 385         390     395         400
      389 Leu Val Ser Ala Ser Tyr Trp Gln Arg Gln Cys Pro Leu Tyr Phe Pro
E--> 390   405         410     415
      391 Glu Thr Asn Gly Tyr Thr Tyr Gly Ser Ala Lys Gly Lys Asn Ala Ala
E--> 392       420     425         430
      393 Thr Val Asn Ser Trp Thr Gly Gly Trp Asp Met Thr Arg Asn Thr Thr
E--> 394   435         440     445
      395 Arg Leu Ile Trp Thr Asn Gly Gln Tyr Asp Pro Trp Arg Asp Ser Gly
E--> 396       450     455         460
      397 Val Ser Ser Thr Phe Arg Pro Gly Gly Pro Leu Ala Ser Thr Ala Asn
E--> 398 465         470.    475         480
      399 Glu Pro Val Gln Ile Ile Pro Gly Gly Phe His Cys Ser Asp Leu Tyr
E--> 400   485         490     495
      401 Met Ala Asp Tyr Tyr Ala Asn Glu Gly Val Lys Lys Val Val Asp Asn
E--> 402       500     505         510
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      464 <210> SEQ ID NO: 7
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      466 <212> TYPE: PRT
      467 <213> ORGANISM: Aspergillus niger
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E--> 471 1     5         10      15
      472 Ala Ser Leu Ala Gln Ala Ala Arg Pro Arg Leu Val Pro Lys Pro Ile
E--> 473       20      25      30
      474 Ser Arg Pro Ala Ser Ser Lys Ser Ala Ala Thr Thr Gly Glu Ala Tyr
E--> 475 35          40      45
      476 Phe Glu Gln Leu Leu Asp His His Asn Pro Glu Lys Gly Thr Phe Ser
E--> 477       50      55          60
      478 Gln Arg Tyr Trp Trp Ser Thr Glu Tyr Trp Gly Gly Pro Gly Ser Pro
E--> 479 65          70      75          80
      480 Val Val Leu Phe Asn Pro Gly Glu Val Ser Ala Asp Gly Tyr Glu Gly
E--> 481   85          90      95
      482 Tyr Leu Thr Asn Asp Thr Leu Thr Gly Val Tyr Ala Gln Glu Ile Gln
E--> 483       100     105         110
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E--> 485 115         120     125
      486 Tyr Glu Val Leu Asn Ala Glu Thr Leu Gln Tyr Leu Thr Leu Asp Gln
E--> 487       130     135         140
      488 Ser Ile Leu Asp Met Thr Tyr Phe Ala Glu Thr Val Lys Leu Gln Phe
E--> 489 145         150     155         160
      490 Asp Asn Ser Ser Arg Ser Asn Ala Gln Asn Ala Pro Trp Val Met Val
E--> 491 165         170     175
      492 Gly Gly Ser Tyr Ser Gly Ala Leu Thr Ala Trp Thr Glu Ser Ile Ala
E--> 493       180     185         190
      494 Pro Gly Thr Phe Trp Ala Tyr His Ala Thr Ser Ala Pro Val Glu Ala
E--> 495 195         200     205
```

```
      496 Ile Tyr Asp Phe Gln Gly Met Ala Gln Asn Cys Ser Lys Asp Val Ser
E--> 497     210     215         220
      498 Leu Val Ala Glu Tyr Val Asp Lys Ile Gly Lys Asn Gly Thr Ala Lys
E--> 499 225         230     235         240
      500 Glu Gln Gln Glu Leu Lys Glu Leu Phe Gly Leu Gly Ala Val Glu His
E--> 501     245         250     255
      502 Tyr Asp Asp Phe Ala Ala Val Leu Pro Asn Gly Pro Tyr Leu Trp Gln
E--> 503         260     265         270
      504 Asp Asn Asp Phe Val Thr Gly Tyr Ser Ser Phe Phe Gln Phe Cys Asp
E--> 505 275         280     285
      506 Ala Val Glu Gly Val Glu Ala Gly Ala Ala Val Thr Pro Gly Pro Glu
E--> 507     290     295         300
      508 Gly Val Gly Leu Glu Lys Ala Leu Ala Asn Tyr Ala Asn Trp Phe Asn
E--> 509 305         310     315         320
      510 Ser Thr Ile Leu Pro Asn Tyr Cys Ala Ser Tyr Gly Tyr Trp Thr Asp
E--> 511     325         330    335
      512 Glu Trp Ser Val Ala Cys Phe Asp Ser Tyr Asn Ala Ser Ser Pro Ile
E--> 513         340     345         350
      514 Phe Thr Asp Thr Ser Val Gly Asn Pro Val Asp Arg Gln Trp Glu Trp
E--> 515 355         360     365
      516 Phe Leu Cys Asn Glu Pro Phe Phe Trp Trp Gln Asp Gly Ala Pro Glu
E--> 517     370     375         380
      518 Gly Thr Ser Thr Ile Val Pro Arg Leu Val Ser Ala Ser Tyr Trp Gln
E--> 519 385         390     395         400
      520 Arg Gln Cys Pro Leu Tyr Phe Pro Glu Val Asn Gly Tyr Thr Tyr Gly
E--> 521     405         410     415
      522 Ser Ala Lys Gly Lys Asn Ser Ala Thr Val Asn Ser Trp Thr Gly Gly
E--> 523         420     425         430
      524 Trp Asp Met Thr Arg Asn Thr Thr Arg Leu Ile Trp Thr Asn Gly Gln
E--> 525 435         440     445
      526 Tyr Asp Pro Trp Arg Asp Ser Gly Val Ser Ser Thr Phe Arg Pro Gly
E--> 527     450     455         460
      528 Gly Pro Leu Val Ser Thr Ala Asn Glu Pro Val Gln Ile Ile Pro Gly
E--> 529 465         470     475         480
      530 Gly Phe His Cys Ser Asp Leu Tyr Met Glu Asp Tyr Tyr Ala Asn Glu
E--> 531 485         490     495
      532 Gly Val Arg Lys Val Val Asp Asn Glu Val Lys Gln Ile Lys Glu Tyr
E--> 533     500     505         510
      534 Gly Tyr Gly Cys
E--> 535 515
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-same
error

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/517,220**

DATE: 07/19/2005
TIME: 08:58:59

Input Set : **E:\24615-20244.00 - seq list.txt**
Output Set: **N:\CRF4\07192005\J517220.raw**

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:267 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:340 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo=5
L:471 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
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